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ILLEGIB

[redacted]

File IN 02597 [illegible] 2 JUNE

ILLEGIB

May 24 1967

[redacted]

TO G-55

FROM G-2 [redacted]

STAT SUBJECT: [redacted] eyepieces versus [redacted] Instruments STAT

In reference to letter from [redacted] STAT
Dtd. May 18th with attached Dwgs. M0K 17-00000 and M0K 11-00000.

Having attempted to interpret the marked drawings tolerances and assuming that the diameters of the [redacted] eyepiece tube is STAT
23.20 MM plus .02 MM minus .05MM; the following facts present themselves in decimal terms in comparison with standard [redacted] STAT
eyepiece diameters.

STAT [redacted] eyepiece ~~.91138 +.0078 -.0019~~ diameter. .91338 ±.0078 ±.0019

[redacted] eyepiece .9145 $^{+.000}_{-.001}$ diameter.

Maximum and minimum diameters:

STAT [redacted] eyepiece .91416 in. max.
.91148 in. min.

[redacted] eyepiece .9145 in. max.
.9135 in. min.

STAT The [redacted] instruments are bored to accept the eyepieces with a standard diameter of .916 +.001, -.000 inches.

	.916	.917
	.91418	.91148
STAT [redacted] eyepieces could fit [redacted] instruments	.0018 loose to	.00352 loose.

	.916	.917
	.9145	.9135
STAT [redacted] eyepieces are	.0015 loose to	.0025 loose.

The maximum loose tolerances for [redacted] instruments was standardized to STAT
conform with the results of an extensive [redacted] study to establish STAT
an eyepiece to eyepiece tube maximum tolerance that would not impair the optical quality of an instrument designed for stereoscopic viewing.

In view of the fact that the apparent minimum clearance of the STAT
STAT [redacted] eyepiece when used in a [redacted] instrument is .0018 inches, it might be advisable to suggest that Wild eyepieces with maximum size tube diameters be selected for use in [redacted] instruments to STAT
assure best performance. STAT

[redacted]

NGA Review Complete
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STAT

STAT

May 18, 1967

STAT

Dear Bob:

We are attaching copies of drawings MOK11 and MOK17 which we believe will give you all the data requested in your letter of May 15th.

Incidentally, the 6X is a Compensating Eyepiece and not a [ ] Field Eyepiece. STAT

You will note that the drawings lack data on the lens elements similar to the type drawing you would send me under like circumstances.

Very truly yours,

STAT

Executive Vice President

KER/cn
enc

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STAT

[ ] EYEPIECE .0005 +.000 -.001

.0005 -
.0035 -

.0016 .0012
.0021 - .0031 -
.0015 - .0035

TOTAL .0016 +.001 -.000

STAT [ ] .0015 TO .0025 LOOSE

STAT

[ ] EYE PIECE

.01016
.01018

.016 .012
-.01018 .01002
.00018 .00052

STAT [ ] .00018 TO .00532 LOOSE

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